

PRODUCT INSERT

RAT anti-MOUSE CD11b

Product Code	Form	Volume	Excitation (nm)	Peak Emission (nm)	Matching Isotype Controls	
RM2800	Purified	1.0 ml	N/A	N/A	Rat IgG2b Purified	Code R2b00
RM2815	Biotin	1.0 ml	N/A	N/A	Rat IgG2b Biotin	Code R2b15
RM2828	Pacific Blue™	1.0 ml	405	455	Rat IgG2b Pacific Blue™	Code R2b28
RM2820	Alexa Fluor® 488	1.0 ml	488	519	Rat IgG2b Alexa Fluor® 488	Code R2b20
RM2801	FITC	1.0 ml	488	525	Rat IgG2b FITC	Code R2b01
RM2801-3	FITC	3.0 ml				
RM2804	R-PE	0.5 ml	488	575	Rat IgG2b R-PE	Code R2b04
RM2804-3	R-PE	3.0 ml				
RM2817	PE-TR†	0.5 ml	488	615	Rat IgG2b PE-TR	Code R2b17
RM2806	TC‡	0.5 ml	488	670	Rat IgG2b TC	Code R2b06
RM2805	APC	0.5 ml	600-650	660	Rat IgG2b APC	Code R2b05
RM2829	Alexa Fluor® 700	1.0 ml	630-702	723	Rat IgG2b Alexa Fluor® 700	Code R2b29

PRODUCT DESCRIPTION

Rat monoclonal antibody to mouse CD11b (Mac-1  $\alpha$  chain)

**Clone:** M1/70.15  
**Isotype:** Rat IgG2b

**Immunogen:** C57BL/10 splenic T cells and concanavalin A stimulated C57BL/10 splenocytes<sup>1</sup>

**Lot No.:** See label      **Expiration:** See label  
**Concentration:** See label  
**Buffer:** Phosphate buffered saline (PBS)

**Preservatives:** 0.1% sodium azide. Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Solutions containing sodium azide should be disposed of properly.

**Stabilizer:** For conjugated products only, a highly purified grade of BSA has been added as a stabilizing protein.

STORAGE AND HANDLING

Store reagents at 2-8°C. Light exposure should be avoided with fluorochrome conjugated reagents. Use dim light during handling, incubation with cells and prior to analysis. It is recommended that cells be analyzed within 18 hours of staining. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted.

PRODUCT CHARACTERIZATION

**Antigen Specificity:** The M1/70.15 monoclonal antibody (mAb) reacts with the  $\alpha_M$  subunit of Mac-1 (CD11b/CD18) which is a type three complement receptor (CR<sub>3</sub>) that is expressed on macrophages, granulocytes, NK cells, and B-1 cells<sup>2,3,4</sup>. Mac-1 plays a role in leukocyte-endothelial interactions and its ligands include ICAM-1, iC3b, fibrinogen, and Factor X<sup>5</sup>. Applications for the M1/70.15 mAb include immunoprecipitation, immunostaining for flow cytometry, IHC of acetone-fixed frozen sections, and blocking of CR<sub>3</sub>-mediated rosetting<sup>2,3,4</sup>.

Explanation of symbols			
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

PRODUCT QUALITY CONTROL

Every lot is tested by flow cytometry using freshly harvested mouse blood. Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.

REFERENCES:

- Springer, T., G. Galfré, D. S. Secher, and C. Milstein. 1978. Monoclonal xenogeneic antibodies to murine cell surface antigens: Identification of novel leukocyte differentiation antigens. *Eur. J. Immunol.* 8: 539-551.
- Springer, T., G. Galfré, D. S. Secher, and C. Milstein. 1979. Mac-1: a macrophage differentiation antigen identified by monoclonal antibody. *Eur. J. Immunol.* 9: 301-306.
- Springer, T. A., D. Davignon, M. K. Ho, K. Kürzinger, E. Martz, and F. Sanchez-Madrid. 1982. LFA-1 and Lyt-2,3, molecules associated with T lymphocyte-mediated killing; and Mac-1, an LFA-1 homologue associated with complement receptor function. *Immunol. Rev.* 68: 171-195.
- Beller, D. I., T. A. Springer, and R. D. Schreiber. 1982. Anti-Mac-1 selectively inhibits the mouse and human type three complement receptor. *J. Exp. Med.* 156: 1000-1009.
- Springer, T. 1994. Traffic signals for lymphocyte recirculation and leukocyte emigration: the multistep paradigm. *Cell* 76: 301-314.

† TR, Texas Red®

‡ TC, TRI-COLOR®

The efficiency of energy transfer in tandem dyes can be significantly decreased by exposure to visible light. We recommend that longer wavelength fluorochrome conjugates, e.g. PE-Cy7, PE-Alexa Fluor® 700, be protected from light during staining and while awaiting analysis, e.g. cover with aluminum foil.

**FIX & PERM®** and **COMBI-IC** reagents are produced for Invitrogen by An Der Grub Bio Research GmbH, Austria.

The Texas Red®, Alexa Fluor® and Pacific Blue® dye conjugates in this product are sold under license from Molecular Probes, Inc., for research use only or as analyte specific reagents, except for use in combination with microarrays or high content screening, and are covered by pending and issued patents.

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